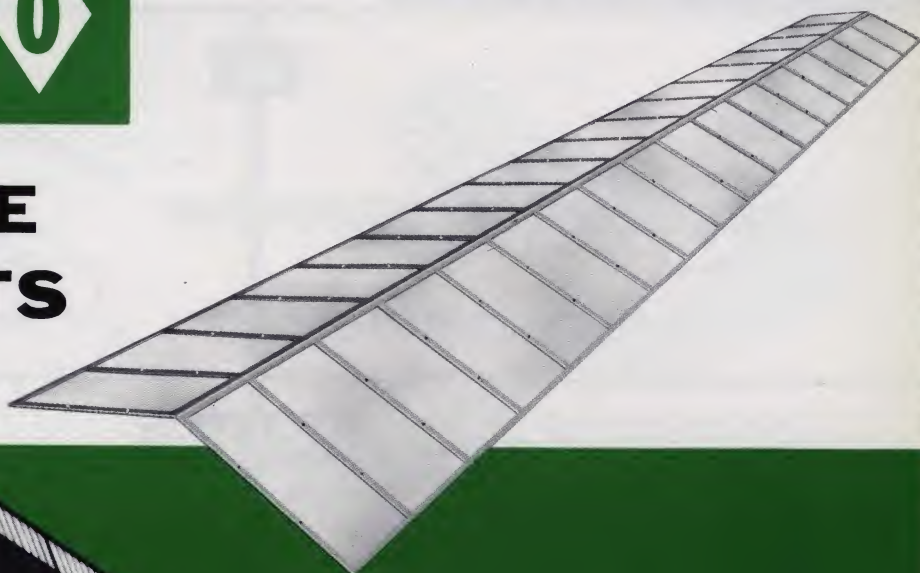


VANCO

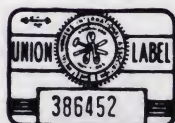
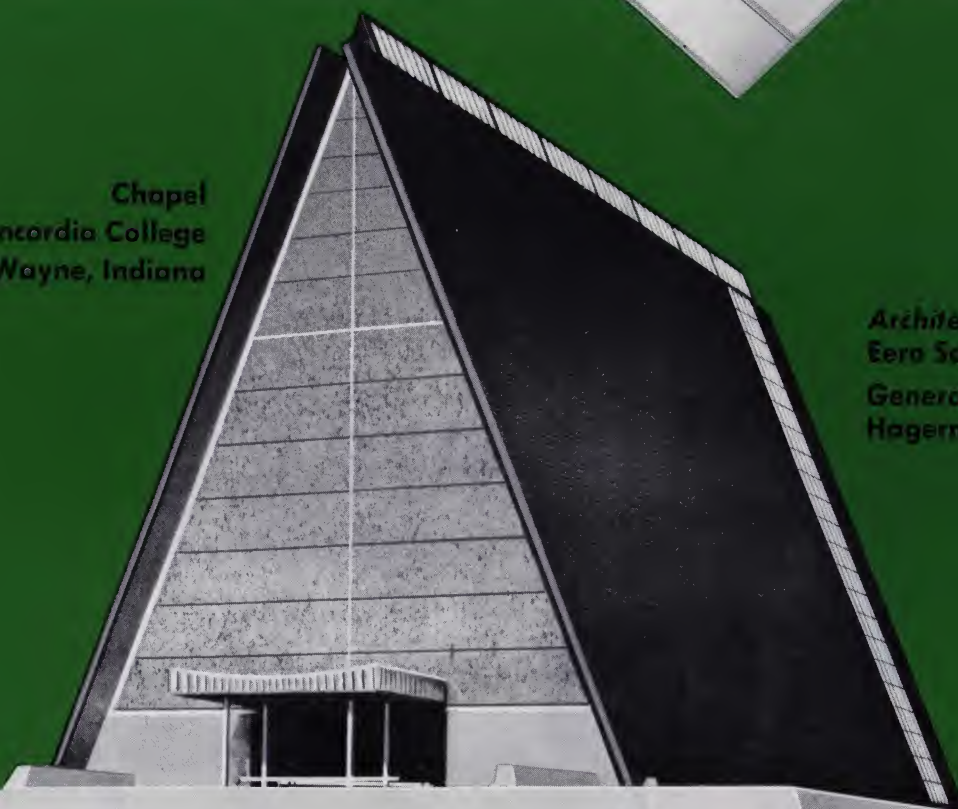
EXTRUDED ALUMINUM

DURATITE SKYLIGHTS



Chapel
Concordia College
Fort Wayne, Indiana

Architect
Eero Saarinen
General Contractor
Hagerman Construction Corp.



All VANCO products are A. F. of L. Building
Trades Union made — your assurance of
highest quality throughout.

For VANCO VENTILATORS . . . see Section 20c/Va
For VANCO DOMELITES . . . see Section 20a/Va
For VANCO LOUVERS . . . see Section 20d/Va
For VANCOLUX SKYLIGHTS . . . see Section 20b/Va

E. VAN NOORDEN COMPANY

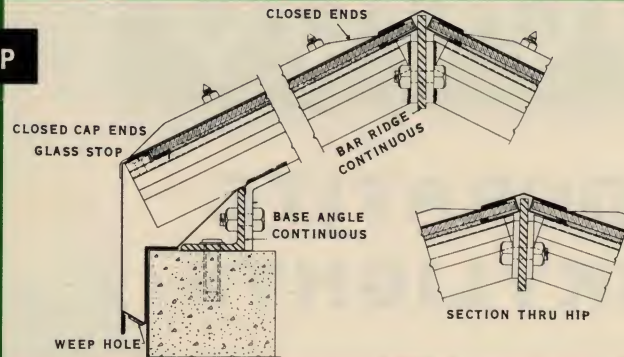
100 MAGAZINE STREET, BOSTON 19, MASS.

Skylight Designers and Manufacturers since 1873

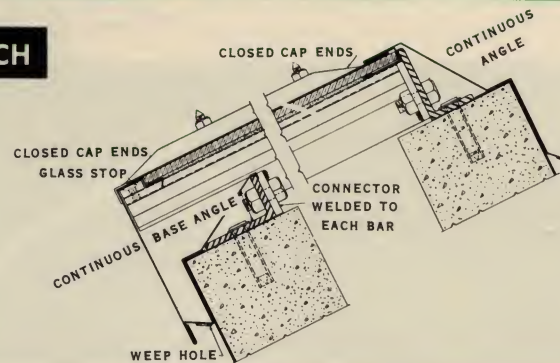
DURATITE SKYLIGHTS

EXTRUDED ALUMINUM-STANDARD STEEL

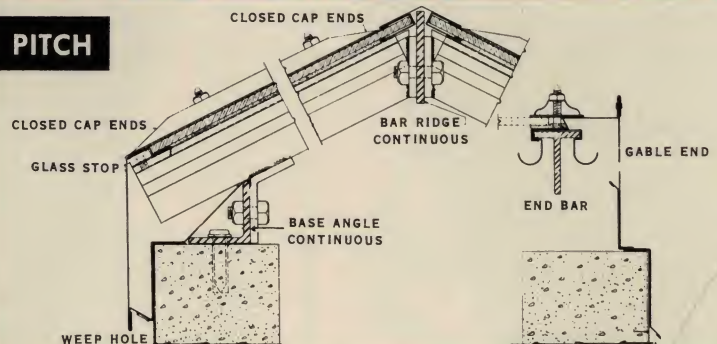
HIP



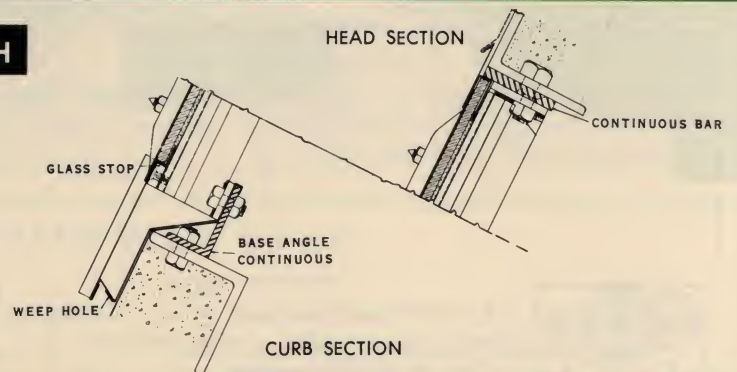
SINGLE PITCH



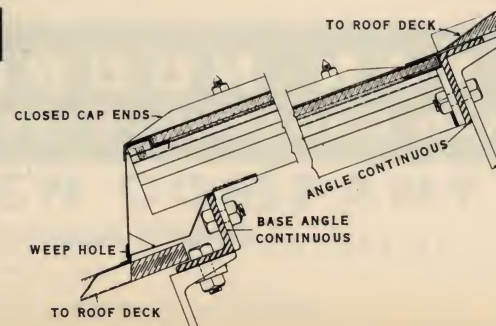
DOUBLE PITCH



SAWTOOTH



DEPRESSED HEAD



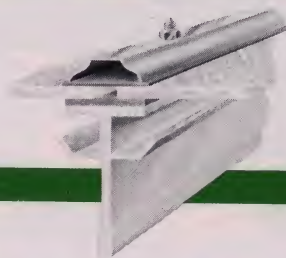
VANCO Duratite Skylights provide even, efficient transmission of light for applications in auditoriums, hospitals, schools, public buildings and factories where low-cost, natural day-lighting is required.

Ribbed or rough wire glass transmits a major percentage of the light from the North sky and the low winter sun, yet, rejects glare from the summer sun. This results in a uniform, efficient transmission of light throughout the year.

Duratite Skylights are available in either rolled steel with non-ferrous trim or extruded aluminum construction and are factory-assembled units, ready for easy installation on *any* curb.

FEATURES

- 1 TRUE GLASS BED — the load-carrying steel or aluminum bars are so strong that a *true glass bed* is *always maintained* and glass breakage due to deflection is eliminated even under extreme weather conditions or live loads.
- 2 ABSOLUTELY WEATHERTIGHT — unique patented saddles and bolts are designed to draw the bar caps and their underlying asphalt felt weatherstripping snug onto the glass, thus assuring *absolute weathertightness*. Never at any time is the skylight bar penetrated.
- 3 POSITIVE CONDENSATION DRAINAGE — condensation is discharged into the bar gutters, drained into the base gutter and discharged to the outside, through *protected* weep holes in the base.
- 4 NO CROSS GUTTER DRIP — patented double-member cross gutters are completely separated to positively prevent cross gutter drip. Outside cold is never conducted to the inside members.
- 5 NON-CORROSIVE BAR GUTTER — each skylight bar is covered by a non-corrosive bar gutter. (On the rolled steel skylights, the bar gutter is made of copper — aluminum or galvanized — applied independently to the steel structure protecting it from exposure to moisture.)



SPECIFICATIONS

Extruded Aluminum Skylights

SKYLIGHTS shall be of VANCO DURATITE all-aluminum construction as manufactured by E. Van Noorden Co., Boston, Mass., so designed that all loads, weathertightness, condensation drainage and allowance for expansion and contraction shall be incorporated.

BARS shall be approximately 24" o.c. of extruded aluminum T's, Alloy 6063 T5 1½" x 3" x ¾" connected to the base, ridge and hip members by means of welded connectors. Bars shall be of sufficient strength to carry all loads with a safety factor of four so that deflection will not exceed ⅓" per foot of clear span. The base member shall be 2" x 2" x ¾" continuous curb extruded aluminum angle, bolted to the curb approximately 24" o.c. Ridge and hips shall be 3" x ¼" aluminum bar.

TRUSS BARS shall be used where horizontal span of bar is in excess of 5 feet.

BAR DRAINAGE GUTTERS shall be extruded aluminum, an integral part of aluminum T-bar sections. All sheet metal portions shall be of 22-gauge 3003 H14 aluminum, with ridge to be of one-piece construction and base apron to form cap flashing with proper insurance for free drainage through weep protected holes.

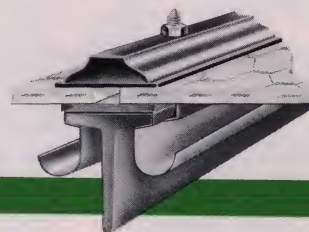
VANCO SADDLES AND CAP BOLTS shall be installed on bars at intervals of 18". Saddles shall be of 20-gauge aluminum with ¼" 2024-T4 aluminum bolts and cap nuts countersunk on the underside. Bolts shall not penetrate the extruded aluminum T-bars.

FELT GLASS BED. Glass shall be bedded on resilient wool felt cushion.

GLASS shall be ¼" ribbed or rough wire glass in lights not exceeding 24" wide and approximately 48" long, smooth face on outside.

WEATHERSTRIPPING. Bar caps shall be underlaid with 45-lb. saturated asphalt felt weatherstripping.

CROSS GUTTERS where required, shall be double member construction, the drainage members segregated from the glass receiving members, allowing free circulation of air.



SPECIFICATIONS

Standard Steel Duratite Skylights

SKYLIGHTS shall be of VANCO DURATITE rolled steel construction as manufactured by E. Van Noorden Co., Boston, Mass., so designed that all loads, weathertightness, condensation drainage and allowance for expansion and contraction shall be incorporated.

BARS shall be approximately 24" o.c. of standard rolled steel T's, 1½" x 2" x ¼", connected to the base, ridge and hip members by means of welded connectors. Steel bolts shall be used only for field connections. Bars shall be of sufficient strength to carry all loads, with a safety factor of four, so that deflection will not exceed ⅓" of one inch per foot of clear span. The base member shall be 2" x 2" x ¾" continuous curb angle, bolted to the curb approximately 24" o.c. Ridge and hips shall be 3" x ¼" bar.

TRUSS BARS shall be used where horizontal span of bar is in excess of 6 feet 4 inches.

PAINTING. All steel portions shall be painted one coat of VANCO compound paint at factory.

WEATHER AND DRAINAGE MEMBERS shall be of 16 oz. cold rolled copper (.025 aluminum or 24 ga galvanized) applied independently to the steel structure, to insure weathertightness and free drainage of condensation through weep holes at base.

VANCO SADDLES AND CAP BOLTS shall be installed on bars at intervals of 18". Saddles shall be of 20 ga. bronze, with ¼" brass bolts and brass cap nuts, countersunk on the underside. Bolts shall not penetrate the Duratite gutter.

FELT GLASS BED. Glass shall be bedded on resilient wool felt cushion.

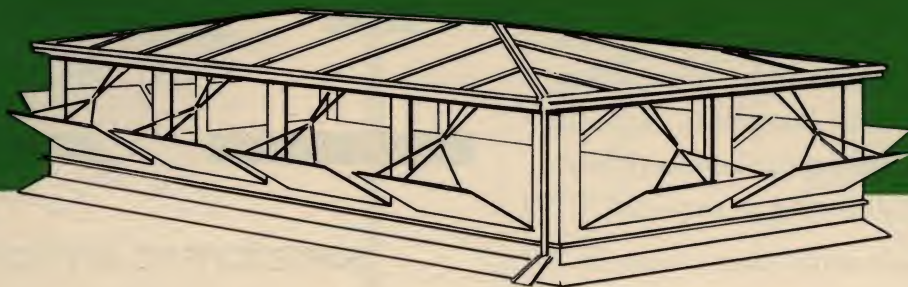
GLASS shall be ¼" ribbed or rough wire glass in lights not exceeding 24" wide and approximately 48" long, smooth face on outside.

WEATHERSTRIPPING. Bar caps shall be underlaid with 45-lb. saturated asphalt felt weatherstripping.

CROSS GUTTERS where required, shall be double H member construction, the drainage members segregated from the glass receiving members, allowing free circulation of air.

VANCO

DURATITE Automatic Stage VENTILATORS



VANCO Duratite Automatic Stage Ventilators provide automatic ventilation in case of fire, to permit the escape of smoke, fumes and gases through the roof of schools, auditoriums, theaters and public buildings.

This immediate ventilation lowers the heat concentration to inhibit the rapid spreading potential of the fire. At the same time, by channeling the smoke, fumes and gases out of the building, these stage ventilators clear the area around the fire so that firemen can get to the danger area quickly and easily.

These units are designed to provide a functionally effective, automatic ventilating system which is architecturally attractive and compatible with modern building design practices.

OPERATION

Fusible links automatically release the monitor fire doors when the temperature inside the building reaches 160°F. The doors can also be opened by manually releasing the operating ropes.

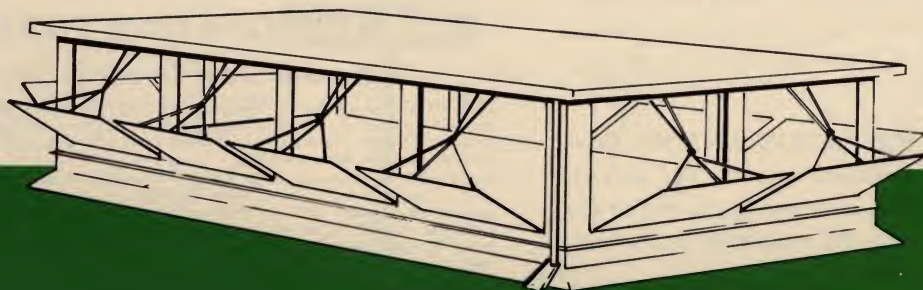
VENTILATOR ROOFS — are flat, double pitch or hip type. The roof consists of a $\frac{3}{8}$ " thick fireproof board, a 30 lb. asphalt felt vapor seal and a metal deck of aluminum, copper or galvanized iron.

MONITOR FIRE DOORS — The automatic-opening fire doors are metal clad on both sides with aluminum, copper or galvanized iron. They are backed with $\frac{7}{8}$ " thick fire resistant insulation which prevents the loss of heat from the building when the doors are closed.

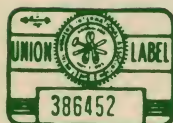
For installation where local fire laws permit, Duratite Automatic Stage Ventilators can be supplied with Duratite Skylights to provide daylight illumination.

CONSTRUCTION

VANCO Duratite Stage Ventilators are self supporting and do not require any secondary structural steel. They are exceptionally strong and durable, and are guaranteed weathertight.



Since it is the policy of E. Van Noorden Company to continually improve design and construction of its products, all details and specifications noted herein are subject to change without notice.



ALL VANCO products are A. F. of L. Building Trades Union made — your assurance of highest quality throughout.

E. VAN NOORDEN COMPANY

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